TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.K.Gopireddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	**Proposed Use**	concrete
Location/Source	At Plant	**Date of Sampling**	13-08-2020
Period of Soaking	24 hours	**Date of Testing**	14-08-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		665	673	652	
B	Weight of oven - dry sample gm.		656	664	644	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1693	1698	1684	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.656	2.656	2.650	2.654
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.372	1.355	1.242	1.323

A.E.E. Project

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS
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TEJUS
CONSULTANTS

Clients	Bruhat Bangalore Mahanagara Palike
Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri.K.Gopireddy

TEST REPORT

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**M sand**	**Proposed Use**	concrete
Sample Location	At Plant	**Date of Sampling**	14-08-2020
		Date of Testing	14-08-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	205	205	6.83	93.17	90 - 100
2.36 mm	322	527	17.57	82.43	75 - 100
1.18 mm	426	953	31.77	68.23	55 - 90
0.600 mm	484	1437	47.90	52.10	35 -59
0.300 mm	770	2207	73.57	26.43	8-30
0.150 mm	635	2842	94.73	5.27	0 - 10
Pan	158	3000			-

Remarks : Satisfactory / Not Satisfactory

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A.E.E (Project)

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TEJUS
CONSULTANTS

Test Report on Cement

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K.Gopireddy
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	14-08-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	106 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

JE
A.E.E. (Project)

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TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K.Gopireddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	mig park

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18-08-2020	15-09-2020	28 days	8.143	22500	482	21.42	21.60
2	18-08-2020	15-09-2020	28 days	8.136	22500	486	21.60	
3	18-08-2020	15-09-2020	28 days	8.140	22500	490	21.78	

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TEJUS
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K.Gopireddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	mig park

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18-08-2020	25-08-2020	7 days	8.123	22500	303	13.47	13.57
2	18-08-2020	25-08-2020	7 days	8.142	22500	308	13.69	
3	18-08-2020	25-08-2020	7 days	8.136	22500	305	13.56	

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A.E.E. (Project)

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.K.Gopireddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	MIG Park(ssm chain link fensing) Yalahanka	Date of Sampling	31-08-2020
Period of Soaking	24 hours	Date of Testing	01-09-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	643	653	660	
B	Weight of oven - dry sample gm.	635	644	652	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1679	1685	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.657	2.650	2.661	**2.656**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.260	1.398	1.227	**1.295**

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TEJUS CONSULTANTS

Test Report on Cement

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K.Gopireddy
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	01-09-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	103 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	392 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri.K.Gopireddy

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Sample Location	MIG Park(ssm chain link fensing) Yalahanka	Date of Sampling	01-09-2020
		Date of Testing	01-09-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	223	223	7.43	92.57	90 - 100
2.36 mm	316	539	17.97	82.03	75 - 100
1.18 mm	426	965	32.17	67.83	55 - 90
0.600 mm	495	1460	48.67	51.33	35 -59
0.300 mm	710	2170	72.33	27.67	8-30
0.150 mm	646	2816	93.87	6.13	0 - 10
Pan	184	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	The work of Development of Parks and construction of Toilets at Various Sector Parks in Ward No 04 Yalahanka New Town.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri.K.Gopireddy

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (M sand)**	**Proposed Use**	concrete
Sample Location	MIG Park(ssm chain link fensing) Yalahanka	**Date of Sampling**	01-09-2020
		Date of Testing	01-09-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	223	223	7.43	92.57	90 - 100
2.36 mm	316	539	17.97	82.03	75 - 100
1.18 mm	426	965	32.17	67.83	55 - 90
0.600 mm	495	1460	48.67	51.33	35 -59
0.300 mm	710	2170	72.33	27.67	8-30
0.150 mm	646	2816	93.87	6.13	0 - 10
Pan	184	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Test Report on Compressive strength of Solid Block

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K.Gopireddy
Cross sectional area	80000mm2
Size of cube	400mm x 200mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	07-09-2020	07-09-2020	80000	406.00	5.08	5.05	5.00
2	07-09-2021	07-09-2021	80000	402.00	5.03		
3	07-09-2022	07-09-2022	80000	404.00	5.05		

JE
A.E.E. (Project)

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TEJUS

KERB STONE (CORE) TEST REPORT

Name of Work	:	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri.K.Gopireddy
Consultant	:	Tejus Consultants, Bangalore
No.of Sample Tested	:	3
Date of Testing	:	15-10-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength
1	50.00	85.00	0.388	2324.79	1.70	0.960	29.64	15.10	16.30	15.65	19.56
2	50.00	85.00	0.395	2366.73	1.70	0.960	29.74	15.15	16.36	15.70	19.63
3	50.00	85.00	0.384	2300.82	1.70	0.960	29.55	15.05	16.25	15.60	19.50

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Consultant's Representative

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KERB STONE (CORE) TEST REPORT

Name of Work	:	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri.K.Gopireddy
Consultant	:	Tejus Consultants, Bangalore
No.of Sample Tested	:	3
Date of Testing	:	21-10-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength
1	50.00	85.00	0.385	2306.81	1.70	0.960	29.64	15.10	16.30	15.65	19.56
2	50.00	85.00	0.397	2378.71	1.70	0.960	29.74	15.15	16.36	15.70	19.63
3	50.00	85.00	0.381	2282.84	1.70	0.960	29.55	15.05	16.25	15.60	19.50

A.E.E. (Project)

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PAVER BLOCK(COBBLE STONE) TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Contractor:	Sri.K.Gopireddy
Name of Work:	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
No.of Sample Tested:	3
Date of Testing:	03-11-2020
Techinical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Sl. No.	Details	FLEXURAL STRENGTH, fcr in N/mm^2	Charecteristic Copressive strength fck in N/mm^2	Average Charecteristic Copressive strength fck in N/mm^2
1	Paver Block	3.74	28.60	28.58
2	Paver Block	3.74	28.62	
3	Paver Block	3.74	28.52	

A.E.E. (Project)

Results: Copressive strength of Paver Block(N/mm^2)= **28.58**

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PAVER BLOCK(COBBLE STONE) TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Contractor:	Sri.K.Gopireddy
Name of Work:	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
No.of Sample Tested:	3
Date of Testing:	03-11-2020
Techinical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Sl. No.	Details	FLEXURAL STRENGTH, fcr in N/mm^2	Charecteristic Copressive strength fck in N/mm^2	Average Charecteristic Copressive strength fck in N/mm^2
1	Paver Block	3.74	28.60	28.58
2	Paver Block	3.74	28.62	
3	Paver Block	3.74	28.52	

Results: Copressive strength of Paver Block(N/mm^2)= **28.58**

A.E.E (Project)

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PAVER BLOCK(COBBLE STONE) TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Contractor:	Sri.K.Gopireddy
Name of Work:	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
No.of Sample Tested:	3
Date of Testing:	08-12-2020
Techinical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Sl. No.	Details	FLEXURAL STRENGTH, fcr in N/mm^2	Charecteristic Copressive strength fck in N/mm^2	Average Charecteristic Copressive strength fck in N/mm^2
1	Paver Block	3.77	29.00	28.40
2	Paver Block	3.70	28.00	
3	Paver Block	3.72	28.20	

A.E.E. (Project)

Results: Copressive strength of Paver Block(N/mm^2)= **28.40**

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Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.:CECTC-MT-JWD-073-2020-21

Date: 31.12.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Bruhat Bangalore Mahanagar Palike.**
Contractor	:	**Sri. k. Gopireddy,** Contractor, Bangalore.
Name of Consultant	:	**Tejus Consultants**
Name of Work	:	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Sample Identification	:	8mm, 10mm 12mm, 16mm. TMT Fe 500 Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test:	:	31.12.2020

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.400	519	564	17
2	10	0.618	523	573	18
3	12	0.885	535	587	19
4	16	1.589	548	600	20

JE
A.E.E. (Project)

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For Civil Experts

Authorised Signature

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TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K.Gopireddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Allalasandra Toilet footing

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04-01-2021	01-02-2021	28days	8.125	22500	470	20.89	20.79
2	04-01-2021	01-02-2021	28days	8.150	22500	472	20.98	
3	04-01-2021	01-02-2021	28days	8.144	22500	461	20.49	

JE
A.E.E. (Project)

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

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TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K.Gopireddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Allalasandra Toilet footing

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04-01-2021	11-01-2021	7 days	8.134	22500	305	13.56	13.73
2	04-01-2021	11-01-2021	7 days	8.128	22500	310	13.78	
3	04-01-2021	11-01-2021	7 days	8.149	22500	312	13.87	

JC
A.E.E. (Project)

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TEJUS

Test Report on Compressive strength of Solid Block

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 81 Yelahanka New Town
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K Gopireddy
Cross sectional area	80000mm2
Size of cube	400mm x 200mm x 200mm
No. of Block Tested	3
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	07-01-2021	07-01-2021	80000	413.00	5.16	5.09	5.00
2	07-01-2022	07-01-2022	80000	402.00	5.03		
3	07-01-2023	07-01-2023	80000	404.00	5.05		

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1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
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3. Any Query regarding the report must be reported reported within 90 days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

A.E.E. (Project)

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TEJUS
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K.Gopireddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	allalsandra toilet top slab

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-01-2021	29-01-2021	7 days	8.152	22500	302	13.42	13.63
2	22-01-2021	29-01-2021	7 days	8.147	22500	308	13.69	
3	22-01-2021	29-01-2021	7 days	8.136	22500	310	13.78	

JE
A.E.E. (Project)

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	The work of Development of Parks and construction of Toilets at A Sector Parks in Ward No 04 Yalahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K.Gopireddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	allalsandra toilet top slab

Sl No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-01-2021	19-02-2021	28days	8.132	22500	490	21.78	21.94
2	22-01-2021	19-02-2021	28days	8.134	22500	493	21.91	
3	22-01-2021	19-02-2021	28days	8.148	22500	498	22.13	

A.E.E. (Project)

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